DEP Documentation

DEP ATOS Worldline Security Officer Guide

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2. SCOPE OF THE DOCUMENT

This document provides an overview of all operations that have to be performed by the DEP Atos Worldline Security Officer (DEP AWL security officer) or by the Third Party's Security Officer to set-up and maintain a DEP Environment.

The document describes how to create a new customer to be managed, together with the management of the KAWL key, the BKS Authority Keys, DEP Control Cards (DCCs) and Application Software integrity/confidentiality. It deals also with the delivery procedures that have to be followed to maintain security when distributing the DEP products are also described.

This guide is especially intended for the DEP AWL security Officer or the Third Party's Security Officer but could offer additional information to other audience.

3. REFERENCES

This document contains references to other documents about the DEP. This paragraph gives a list of all the documents referred to:

- *DEP PC-AUX Program User Manual*
- *DEP C-ZAM/DEP User Manual*
- *DEP Customer's Security Officer's Guide*
- *DEP Security Mechanisms*
- *DEP/NT Installation Guide*
- *DCC Personalisation System User Manual*
- *DEP General Architecture*
- *DEP/PCI Security Policy*

There are no references made to the following documents, but they could be useful to understand this document.

- *DEP Introduction to DEP*
- *DEP Glossary*

4. ATOS WORLDLINE ENVIRONMENT

The DEP AWL security Officer maintains the environment that is used for generating the deliveries. This environment is situated at the Atos Worldline office. Only DEP AWL security Officers are allowed to use this environment.

The environment consists of:

- A PC, not connected to any network, containing:
  - The DCC Personalisation System for the creation of DCCs and software signature,
  - Logbooks containing the created deliveries.
- A C-ZAM/PC, serving as a Smart Card Reader/Writer,
- A printer, connected to the PC, used to print PIN codes of DCCs.

The PC, C-ZAM/PC and printer are located at the Atos Worldline T&P department in the DEP group (T&P/ENG/DEP).

5. AUTHORITY LEVELS AND MODES OF OPERATION

5.1. SET-UPS

The DEP/PCI must be first configured from the Original Password State (initial state with the boot software) to the state DEP Application loaded. During this phase, the KAWL key will play an important role for software integrity checking.

As described in the document *DEP General Architecture*, in the state DEP Application loaded, there are different Authority Levels. All the devices of a functional operational DEP Environment should be set to the Customer Authority Level.

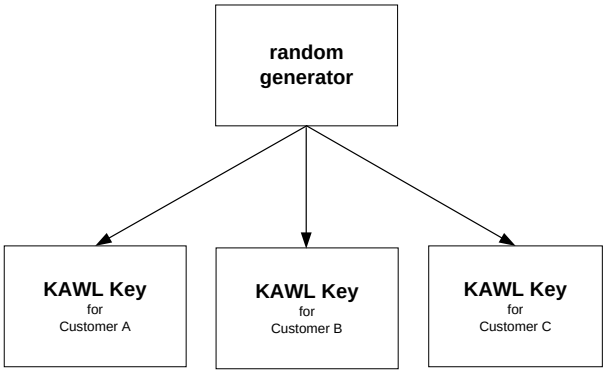
To increase the security and the manageability of the system, it is decided that every customer receives a unique KAWL key and a unique set of BKS Authority Keys.

Because these keys are different/unique per customer, they can be given to the specific Customer's Security Officer without jeopardising the DEP Environment of other customers. The Customer's Security Officer can reload the C-ZAM/DEP and the DEP Platform on his own without any intervention by DEP AWL security Officer.

For more information about Authority Levels, refer to the document *DEP General Architecture*.

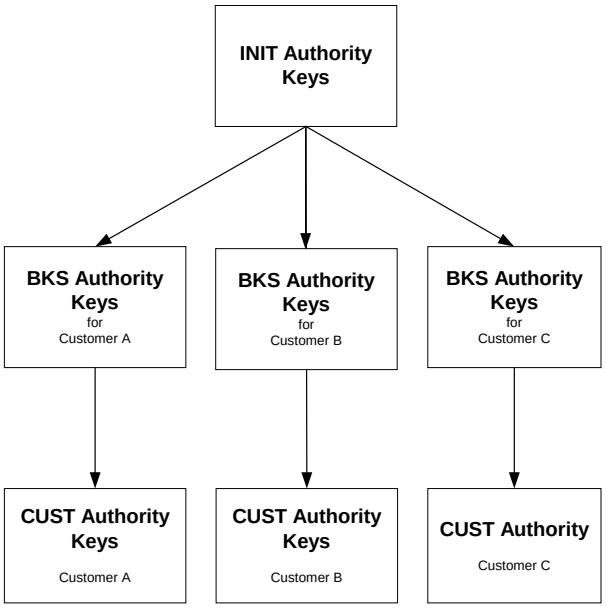
5.2. KAWL KEY SET-UP

This key will be used by the Customer administrators to initialise the DEP/PCI and by the customer operator of the software-loading group to load DEP Application Software.



5.3. KBKS KEYS SET-UP

These keys are used at the application-loaded phase to personalize the DEP/PCI so that it can use the cryptographic functions.



These 2 set-ups are the basis for the DEP AWL Security Officer operations.

5.4. DCCS AND MODES OF OPERATION

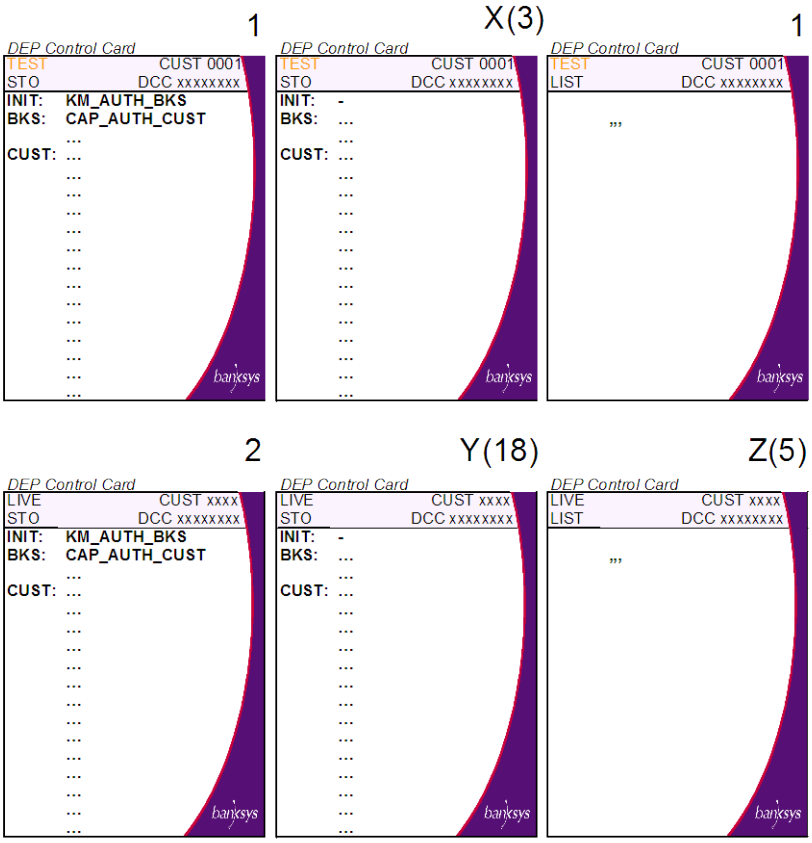
A standard distribution of DCCs is defined. This package contains DCCs for the Test Mode of Operation and the Live Mode of Operation. The Customer Identification 0001 is used for the entire set of test DCCs.

All the delivered DCCs are at BKS Authority Level.

The following DCCs are handed over to the Customer's Security Officer when the standard package is delivered:

- 2 DCC Storage with TEST Mode of Operation (CUST ID 0001) containing the KM_AUTH_BKS and the CAP_AUTH_CUST
- 2 virgin DCC Storage with TEST Mode of Operation (CUST ID 0001)
- 1 DCC List with TEST Mode of Operation (CUST ID 0001) containing the Atos Worldline Definition List (see paragraph 6 on page 10)

- 2x2 DCC Storage with LIVE Mode of Operation containing the KM_AUTH_BKS and the CAP_AUTH_CUST
- 16 virgin DCC Storage with LIVE Mode of Operation
- 5 DCC List with LIVE Mode of Operation containing the Atos Worldline Definition List (see paragraph 6 on page 10)



The DCCs are PIN protected to avoid un-allowed access to the information on the DCCs. The DCCs given to the customer are protected by the PIN "1234", it is the responsibility of the Customer Security Officer to change this PIN.

The DCCs with the KM_AUTH_BKS and CAP_AUTH_CUST contain sufficient information for the Customer's Security Officer to generate the CUST Authority Keys. Note that the DEP AWL Security Officer will not define the CUST Authority Keys. The Customer's Security Officer will define his own CUST Authority Keys. In this way he can be certain he is the only one *knowing* the secret values.

More information on the creation of the CUST Authority Keys can be found in the document *DEP Customer's Security Officer's Guide*.

Additional DCCs can be obtained on request. E.g. it could also be possible that the customer needs additional DCCs for storing keys and capabilities; although the Customer's Security Officer has received two identical DCC sets containing the necessary information to create the CUST Authority Keys, it could always be possible that the customer needs additional DCCs containing the BKS Authority Keys and the CUST Authority Capability (e.g. in case of defect)…

6. CREATING BANKSYS DEFINITION LIST

6.1. DESCRIPTION

The banksys Definition Lists are the Definitions Lists at BKS Authority Level. They need to be generated before DCCs can be created.

The creation of the Atos Worldline Definition Lists is done using the *DEP PC-AUX Program*. For a detailed description of how to use this program, refer to the *DEP PC-AUX Program User Manual*.

The following Definition Lists must be created:

- BKS Secret Sharing Definition List
- BKS Capability Definition List
- BKS Key Definition List

Of course, these Definition Lists should only be created when they do not exist yet.

6.2. CREATE THE BKS SECRET SHARING DEFINITION LIST

Enter the following secret sharing scheme in the Secret Sharing Definition List (refer to the *DEP PC-AUX Program User Manual*).

SSH_IDX	NAME	GRP_CNT	GRP1	GRP2	GRP3
00	No SSH	01	01	00	00
	SSH …				

6.3. CREATE BKS CAPABILITY DEFINITION LIST

Enter the following capability definitions in the Capability Definition List (refer to the *DEP PC-AUX Program User Manual*).

TAG	NAME	SSH_IDX
05F00100	CAP_AUTH_CUST	00

6.4. CREATE BKS KEY DEFINITION LIST

Enter the following key definitions in the Key Definition List (refer to the *DEP PC-AUX Program User Manual*).

OLD DEFINITION LIST FORMAT

TAG	NAME	LENGTH	SSH_IDX	TYPE	ENTRY	CV1	CV2	CV3	NO
04F01500	KM_AUTH_BKS	0060	00	01	00	00	00	00	0000
04F01600	KM_AUTH_CUST	0060	00	01	00	00	00	00	0000

NEW DEFINITION LIST FORMAT

TAG	NAME	LENGTH	SSH_IDX	TYPE	ENTRY	CV1	CV2	CV3	NO
04F01500	KM_AUTH_BKS	0060	00	01	00	01	01	01	0000
04F01600	KM_AUTH_CUST	0060	00	01	00	01	01	01	0000

6.5. SAVE THE DEFINITION LISTS ON THE PC

When the Definition Lists are created they must be saved (refer to the *DEP PC-AUX Program User Manual*).

Afterwards they are included (through a shortcut) in the DCC Personalisation System.

7. CREATING A NEW CUSTOMER

As described in the document *DEP Security Mechanisms*, there are two alternative methods to bring the DEP Environment in BKS Authority Level:

- BKS Authority Keys are generated inside the C-ZAM/DEP
- BKS Authority Keys are generated by the DCC Personalisation System

Creating a new customer is different between the two methods, especially for the creation of the DCCs and the management of the BKS Authority Keys.

Because in practice only the latter alternative is used, the paragraphs below do not explain the use of the C-ZAM/DEP when creating a new customer.

7.1. CREATING CUSTOMER IDENTIFICATION

Each customer has to be assigned a unique Customer Identification number (CUST ID), identifying the customer in the DEP Environment. A CUST ID is defined as a 2 byte hexadecimal value.

To guarantee the uniqueness, it is necessary to keep a table with the names of the customers and their CUST ID. This table is managed in the DCC Personalisation System.

This task has to be performed only once for each new customer.

Remark that one CUST ID (*0001*) is dedicated to a *Test Customer*. This CUST ID is then used for setting up a test environment.

7.2. CREATING BANKSYS AUTHORITY KEYS

For every customer, a unique set of BKS Authority Keys has to be defined. The DCC Personalisation System generates automatically new and random BKS Authority Keys when creating a new Customer (Identification).

After the generation of the BKS Authority Keys, they will be saved in a password-encrypted database and will remain under control of the DEP AWL Security Officer that possesses the password.

This task has to be performed only once for every new customer.

For more information, refer to the *DCC Personalisation System User Manual.*

7.3. CREATING KAWL KEY

For every customer, a unique set of KAWL key has to be defined. The DCC Personalisation System generates automatically new and random KAWL key when creating a new Customer (Identification).

After the generation of the KAWL, it will be saved in a password-encrypted database and will remain under control of the DEP AWL Security Officer that possesses the password.

This task has to be performed only once for every new customer.

For more information, refer to the *DCC Personalisation System User Manual.*

8. CREATING DCCS

DCCs can only be created for customers previously created and still available in the DCC Personalisation System.

During the creation of the DCCs, different information should be delivered to the DCC Personalisation System:

- Indication whether a DCC List or a DCC Storage is personalised
- The Mode of Operation is TST or LIV, depending on a test environment or live environment
- The destination customer is selected by its unique CUST ID as generated (see paragraph 7.1 on page 12)
- The total number of DCCs and (only for DCC Storage) how many DCCs need to be created with the BKS Authority Key and the CUST Authority Capability
- Optionally, a dedicated PIN code can be entered (PIN 1234 is used for DCCs in TEST Mode of Operation)
- The earlier created Atos Worldline Definition Lists (see paragraph 6 on page 10) implicitly used by the DCC Personalisation System

8.1. CREATION PROCESS

During the personalisation process of the DCC, the DCC Personalisation System writes all the necessary information to obtain the DCCs defined in paragraph 5.4 on page 8.

The personalisation of DCCs is under control of the DEP AWL Security Officer that manages the password delivering access to the DCC Personalisation System.

During personalisation, the DCCs are put at BKS Authority Level. This means that:

- The complete directory structure of the DCC is created (INIT – BKS – CUST),
- At INIT Authority Level, the keys IK and AK, and the PIN are stored.

Two different card types are personalized: a DCC Storage and a DCC List:

- DCC List: the lists with keys, capabilities and secret sharing schemes are stored on INIT Authority Level,
- DCC Storage: the *KM_AUTH_BKS* at INIT Authority Level and the *CAP_AUTH_CUST* are generated and stored at BKS Authority Level.

8.1.1. Personalization of the Storage DCCs

During the personalization of the DCCs storage following parameters must be defined:

- Customer
- Cust_ID
- Mode
- Card type and number
- Card Parameters
- Version number

8.1.1.1.Customer and Cust_ID

The Customer and its CUST_ID selected by default is the first one in the database. Select the correct customer and Cust_ID needed. If the customer does not exist yet, create a new, unique, Cust_ID.

8.1.1.2.Mode

Select the correct mode needed. Following modes are available:

- LIV
- DEV
- TST

8.1.1.3.Card type and number

Select Storage and enter the number of cards that will be personalized with the *KM_AUTH_BKS* and *CAP_AUTH_CUST*. The total number of cards will increase at the same time.

8.1.1.4.Card Parameters and Version Number

- Pin Code: The Pin Code is defined randomly. The check box “Pin randomly generated” must be checked.

- DCC ID: The DCC_ID is extracted from the database and automatically incremented with $1_{hex.}$

- Version Nb: The version number equals '0001'.

8.1.1.5.Write the Storage DCC

The application checks the data and after the confirmation of the DEP AWL Security Officer and the insertion of the First Storage DCC, the personalization will start. The DCC Personalisation System asks automatically for following DCCs to be inserted.

Each Liv DCC Storage and its PIN is delivered in a separate secure envelope. The secure envelopes provide tamper evidence. The customer Security Officer can contact the Atos Worldline sales representative to obtain the identification numbers of the secure envelopes.

8.1.2. Personalization of the List DCCs

During the personalization of the DCCs list following parameters must be defined:

- Customer
- Cust_ID
- Mode
- List Init
- Total number of cards
- Version number

The Customer, Cust_ID, Mode and version number are handled in the same way as the personalization of the Storage DCCs.

8.1.2.1.List Init

Personalizing a DCC List, the List Init must be selected because every customer has his own Definition Lists. List Init indicates that the default Definition Lists containing the capabilities and Authority keys will be written at INIT Authority Level on the DCC card.

8.1.2.2.Number sets of cards

For the DCC List, Nbr sets of cards are equal to 2. It indicates how many times the Security Officer wants to write the Definition Lists.

8.1.2.3.Write the List DCCs

The application checks the data and after the confirmation of the Security Officer and the insertion of the First List DCC, the personalization will start. The DCC Personalisation System asks automatically for following DCCs to be inserted.

For more information, refer to the *DCC Personalisation System User Manual*.

8.2. DATABASE STORAGE

For each created DCC following information is stored (encrypted) in a database:

- Cust_ID
- Date of creation
- Pin Code
- Mode
- Atos Worldline Authority Key

Additional, for each customer, the Application Software together with the Authentication Code is kept in the same database.

This database is kept on the stand alone PC and protected by a pass-phrase. The pass-phrase is required once during following operations:

- To add, to delete or to edit a customer
- To change the pass-phrase, to compute a certificate (SAC)
- To decrypt a PIN
- To write a DCC.

A logging is kept of all the personalised DCCs containing the personalisation date and time, the DCC ID, the CUST ID and the PIN code. There is a different logging for DCC List and DCC Storage.

For more information, refer to the *DCC Personalisation System User Manual*.

8.3. PIN PRINTING

Because a random PIN is generated for every created DCC (except when entering a dedicated PIN code, e.g. for test DCCs), a list of the DCC Identifications and their corresponding PIN codes must be supplied to the Customer's Security Officer.

All initial PIN codes are stored in the password-encrypted database of the DCC Personalisation System.

The DEP AWL Security Officer can print the clear-text values of the PIN codes on paper.

For more information, refer to the *DCC Personalisation System User Manual*.

9. APPLICATION SOFTWARE INTEGRITY AND CONFIDENTIALITY

For every customer and every Application Software version, a Software Authentication Code needs to be calculated to guarantee the integrity of the Application Software and to identify the supplier. A Software Authentication Code is a Message Authentication Code calculated over the DEP Application Software[1]. The DEP AWL Security Officer calculates it.

In addition, the Application Software is encrypted by the DEP AWL Security Officer to guarantee the confidentiality.

This Software Authentication Code and the encrypted Application Software are calculated with the KAWL, and thus unique for every customer. Because the unique KAWL key for every customer is kept in the password-encrypted database of the DCC Personalisation System, only this system can calculate the Software Authentication Code and encrypt DEP Application Software.

For this operation, the following information is needed:

- The Mode of Operation is TST or LIV, depending on a test environment or live environment
- The destination customer is selected together with its unique CUST ID as generated (see paragraph 7.1 on page 12)
- The clear-text Application Software

The output is the encrypted Application Software and a Software Authentication Code File containing the Software Authentication Codes for the selected Application Software and the selected customer(s).

For more information, refer to the *DCC Personalisation System User Manual*.

10. DELIVERY

[1] It is an AES256 CMAC evaluated on the DEP Application Software

A DEP AWL Security Officer creates all deliveries. All deliveries are handed over to the Security Officer of the customer.

The Cust_ID (Customer Identification Number) is communicated to the customer Security Officer by the DEP technician (DEP TECH) during the first delivery.

10.1. DELIVERY HARDWARE

A DEP technician always does the delivery. It consists of:

- Depending on the configuration:
  - A DEP Platform with at least one DEP Crypto Module, or
  - One or more DEP Crypto Modules,
- One or more C-ZAM/DEPs,
- A four digit Customer Identification number (Cust_ID),
- The following DCCs together with their PIN:
  - Test DCC Lists
  - Test DCC Storage
  - Liv DCC lists
  - Liv DCC Storage
- 2 envelopes with the pre-expired usernames and passwords, for the Customer administrators,
- 2 envelopes with the KAWL key component with their corresponding key check value (key check of type NORM),

It is the task of DEP marketing and sales (DEP MKT) to provide the DEP technician with the contact information head Security Officer of the customer.

The customer can ask for the name of the DEP technician to his Atos Worldline sales representative. Atos Worldline DEP technicians always carry their identity card. This allows the customer to verify the identity of the person presenting himself as being the DEP technician.

10.1.1.DEP Platform

A DEP Platform is a DEP/T6, a DEP/XP or a DEP/NT. In this latter, the description of the PC containing the DEP Crypto Module can be found in the *DEP/NT Installation Guide*. DEP Platforms are installed and configured by the DEP technician (Operating System, DEP management software, IP communication software).

When the customer chooses not to use a DEP Platform delivered by Atos Worldline, it is his responsibility to provide a PC with PCI bus to put the DEP Crypto Module into. In this case also providing the software of the PC is the responsibility of the customer.

The DEP technician can collect DEP Platforms at the DEP manufacturer site.

10.1.2.C-ZAM/DEP

The C-ZAM/DEP is delivered in authority level NONE to the customer. This means that there are no keys or capabilities loaded in it (except for the hard-coded INIT authority level keys that are the same for each customer).

The DEP technician can order C-ZAM/DEPs at the Atos Worldline warehouse.

10.1.3.Cust_ID

The DEP AWL Security Officer guarantees that the customer identification number **Cust_ID** is unique. This is done using the DCC Personalisation System (see the *DCC Personalisation System User Manual*).

The DEP AWL Security Officer communicates the Cust_ID to the DEP technician.

10.1.4.Pre-expired usernames & passwords

The security officers in the security department of Atos Worldline generate the pre-expired passwords and usernames for the customer, to be used as initial authentication credential. These credentials are identical for all the customers. However, the DEP/PCI cannot perform any security operation, unless the pre-expired credentials changed by the administrator's crypto officers of the customer. Each administrator receives independently his own pre-expired credential in a secure way and in nominative sealed secure envelope.

10.1.5.KAWL key components

The KAWL key components are created in secure room of the security department at Atos Worldline. Each component is send to the adequate customer crypto officer (the administrator) via a secure way and a nominative sealed secure envelope.

10.1.6.DCC

The DCCs are packaged in a secured envelope together with the corresponding PIN codes. The secured envelope contains the reference of the destination Customer's Security Officer.

This package is handed over to the Customer's Security Officer by a DEP technician.

10.1.6.1.Smart cards

When receiving a request of a customer, the DEP AWL Security Officer can order empty Smart Cards (type: Bull CP8 Integrated Chip Cards (ICC) with the TB Operating System) at the Atos Worldline warehouse. These are standard Smart Cards, delivered by the Smart Card manufacturer, which did not go through any procedure yet.

10.1.6.2.Use DCC Personalisation System

To convert the standard Smart Cards into the different DCCs that can be used in the DEP environment, the *DCC Personalisation System* is used. Only DEP AWL Security Officers are allowed to create DCCs.

This tool performs following actions:

- Bring the DCCs to the Atos Worldline Authority level,
- Definition and printing of the PIN code,
- Write the default Definition List on the DCCs.

Detailed information regarding this tool can be found in the *DCC Personalisation System User Manual*.

10.1.6.3.Labelling

For the creation of the labels (one for each DCC), the **Labels DCC6** Excel document is used.

Concerning the Storage DCCs labels, following parameters are defined:

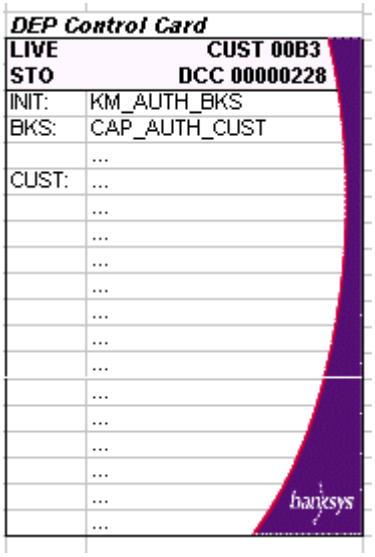
- Cust_ID: Customer identification.
- First STO: Number that is given to the first Storage DCC. The numbers for the following 3 DCCs are automatically incremented with 1.

For the List DCCs labels, following parameters are defined:

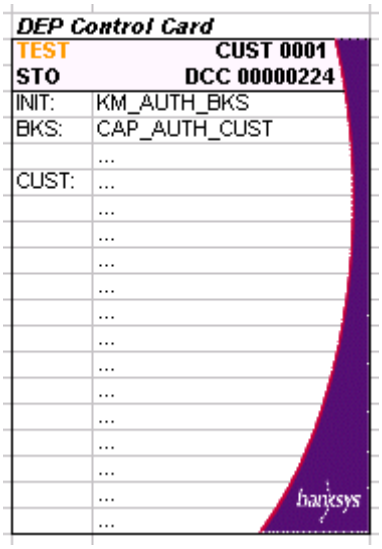
- Cust_ID: Customer identification.
- First List: Number that is given to the first List DCC. The numbers for the second DCC is automatically incremented with 1.

Note: If the labels are created for Test Mode DCCs, the Cust_ID will always be ‘0001’

Example of Live Storage label:



Example of Test Storage label:



10.1.7.Delivery Documentation

There is no specific delivery documentation when the DEP technician delivers the DEP system. Only a delivery note has to be signed by the customer for invoice purposes.

10.2. DELIVERY SOFTWARE

The software delivery consists of:

- DEP Application Software
- Software Authentication Code
- Hand Over Form document
- Delivery Confirmation Document

The role of the DEP AWL Security Officer is to guarantee the integrity (and confidentiality) of the Application Software.

Once the Software Authentication Code is calculated (and the Application Software is encrypted), the DEP AWL Security Officer gives the right to distribute/deliver the Application Software to the corresponding customer.

Before the Software Authentication Code File is transferred it has to be guaranteed that only the Software Authentication Codes for the dedicated customer are mentioned. Possibly other Software Authentication Codes must be deleted on the temporary copy.

It is not necessarily the DEP AWL Security Officer that sends the (encrypted) Application Software and Software Authentication Code to the Customer' Security Officer.

The media for distributing the (encrypted) Application Software and the SAC is not defined. Different alternatives are possible: encrypted e-mail, diskette, CD…When sending by e-mail, the encryption tool used is PGP. It is the task of the DEP AWL Security Officer to obtain and check the PGP key (using the fingerprint) of the customer Security Officer.

Together with the DEP Application Software and the SAC, a **Hand Over Form document** (see paragraph 12.2) is delivered to formalise the delivery of the DEP Software.

A **Delivery Confirmation Document (**see paragraph 12.1) is also forwarded to allow the customer to confirm the receipt of the delivery. When the customer receives the delivery, the customer should confirm the delivery by returning the **Delivery Confirmation Document**.

10.2.1.Offer/Request

Each time a customer request DEP Application Software, a DEP Software Offer Analysis is created containing the following information:

- **Sequence Number of the Offer/Request**
  - Requester (Name)
  - Date Request

- **Information given by the customer**
  - Requested Operational Date

- **Information given by the Atos Worldline analyst**
  - Document and software version
  - Document and software date
  - Document and software status
  - Document confidentiality

The information of theses offers/requests is stored at Atos Worldline in the directory:

\\cursa\DIV\TP\SPA\BSA\DEP\PRV\Administration\Offers

The offers/requests are divided in three categories, namely:

- Delivered
- Development in Progress
- No Action

The name of an offer/request has the following format:

- Sequence number
- '_OFFER_ANALYSIS_'
- Name of the customer, e.g. 0036_OFFER_ANALYSIS_INTERPAY.doc

10.2.2.DEP Software Handover Form

A DEP Software Handover Form document (see paragraph 12.2) contains the following information:

- Description
  - Software Name: name of the delivered software,
  - Date: finalization date of the software,
  - Project Leader: name of the Atos Worldline project leader,
  - Customer: name of the customer,
  - Short History of the software
  - Remarks: Additional remarks (optional)

- Acceptation Team
  - Release and sub-release number that is tested,
  - Name of the Atos Worldline Tester,
  - Name of the Test Report,

- Software details
  - Indicates that it is a final or a Beta release,
  - File name of the software,
  - Version of the software,
  - Creation date of the software,
  - Size of the software,
  - How the software is delivered (e.g. floppy, CD-ROM, e-mail)

- Dependencies
  - Overview of all delivered software including the version numbers.

- Project and Team Leaders
  - Information about current release.
  - Date
  - Names of the Project and Team leader

The Delivery documentation can be found in following directory:

\\cursa\\DIV\TP\SPA\BSA\DEP\PRV\SoftwareFactory\DEP_PCI_ISA\customer name

10.2.3.Delivery Confirmation Document

A Delivery Confirmation document (see paragraph 12.1) contains the following information:

- General information: General guidelines concerning the delivery.
- DEP Software information:
    - Software name: Name of the delivered Software including the version number.
    - Software date: Delivery date of the Software.
    - Document references: This is an overview of all DFS/ADD documentation delivered.
- Delivery confirmation: Confirmation of the receipt of the software, DEP Software Hand Over Form and documentation with the above references.
- Signature: Customer Signature.

The Delivery documentation can be found in following directory:

\\cursa\DIV\TP\SPA\BSA\DEP\PRV\SoftwareFactory\DEP_PCI_ISA\customer name

10.3. DELIVERY DOCUMENTATION

However, detailed information is available on the DEP/PCI and other Atos Worldline and Atos Worldline products from the following sources:

- The Atos Worldline and Atos Worldline internet site contains information on the full line of security products at http://www.banksys.be/

In order to properly install the DEP/PCI, the ATOS Worldline administrators have to read the documents on the site of the DEP products:

- http://www.banksys.com/

There are several documents as

DEP Documents

- 1-1 DEP Document Overview (new version)
- 1-2 DEP Introduction to DEP
- 1-3 DEP General Architecture
- 1-4 DEP Glossary
- 2-1 DEP Host Interface Protocol
- 2-2 DEP DS3 and DS4 Principles
- 2-3 DEP Secret Sharing Mechanism
- 2-4 DEP Security Mechanisms
- 3-1 DEP/NT Host Interface Supervision User Manual
- 3-2 DEP/NT DEP Handler Supervision User Manual
- 3-3 C-ZAM/DEP User Manual
- 3-4 DEP PC-AUX Program User Manual
- 3-5 DEP Key Derivation Tool User Manual
- 3-6 DEP RSA Key Gen&Use Program User Manual
- 3-7 DEP RSA Key Loading Program User Manual (new version)
- 3-8 DEP/Linux User Manual
- 4-1 DEP/NT Installation Guide
- 4-2 DEP Atos Worldline' Security Officer's Guide
- 4-3 DEP Customer's Security Officer's Guide

- 4-4 DEP Key Backup Conversion Guide
- 4-5 DEP Customer Host Programmers Guidelines
- 4-6 DEP Key Entry Guide
- 4-7 DEP QUICK load Guide

There is no specific delivery documentation when the Atos Worldline DEP/PCI technician delivers the DEP/PCI system. Only a delivery note has to be signed by the customer for invoice purposes. The customer security officer is advised to have a look at the same list of documents on the Internet site of Atos Worldline.

11. MANAGEMENT ISSUES

Because the DCC Personalisation contains a lot of sensitive and important information, the necessary precautions must be taken to avoid leakage loss of sensitive information.

Therefore it is important that the access to the DCC Personalisation System is limited and under control of the DEP AWL Security Officer.

Regular backup of the database are important to avoid loss of information.

12. ANNEXES

12.1. DELIVERY CONFIRMATION DOCUMENT

Delivery Confirmation Document

General Information :

This document should be returned to *banksys* to express the receipt of the *banksys'* DEP software, DEP Software Hand Over Form and software documentation. Please send this document to:

banksys – **Terminal & Cards Applications**
Banking and Security Applications
Haachtesesteenweg 1442
1130 Brussels
Fax: +32.2.727.62.50

DEP Software Information :

Software Name : .....
DEP Software Binary Name/Date : ...../
Document References
- Integration Manual .....
- DFS/ADD1 .....
- DFS/ADD2 .....
- DFS/ADD3 .....
- DFS/ADD4 .....
- DFS/ADD5 .....
- DFS/ADD6 .....
- DFS/ADD7 .....
- DFS/ADD8 .....
- DFS/ADD9 .....
- DFS/ADD10 .....

Delivery Confirmation :

Confirmation of the receipt of the software binary, DEP Software Hand Over Form and documentation with the above references:

☐ **YES**, we received all the components
☐ **NO**, we didn't receive the following component:
- ☐ Software Binary
- ☐ DEP Software Hand Over Form
- ☐ Documentation

Signature :

Date :
Customer's Signature

12.2. DEP SOFTWARE HANDOVER FORM

DEP Software HandOver Form

Description :

Software Name :
Date :
Project Leader :
Customer :
Short History :

Remarks :

Acceptation Team :

Release & Sub-Release Number tested :
Tester Name :
Test Report :

Software Details :

☐ **Final Release** ☐ **Beta Release**

Filename/Label	Version	File Date	Size	Support
	0.0.a			

Dependencies :

☐ **DEP Software** ☐ **DEP/NT Software**

Requires the following minimal configuration:

Alarm Software Version	:	0.0.a	
Boot Software Version	:	0.0.a	
DEP Handler Service Version	:	0.0.00	(only DEP/NT)
DEP Handler Supervision Version	:	0.0.00	(only DEP/NT)
Host Interface Service Version	:	0.0.00	(only DEP/NT)
Host Interface Supervision Version	:	0.0.00	(only DEP/NT)
C-ZAM/DEP Version	:	0.0.a	(only DEP/NT)

Project & Team Leaders :

Release Accepted	:	☒ Yes	☐ No	
Replaces previous version	:	☒ Yes	☐ No	.....

Date : Date :
Name Project Leader Name Team Leader